

SCRATCHMASTER®

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SOUND PRODUCTS WITH SOUND IDEAS

PMX-18

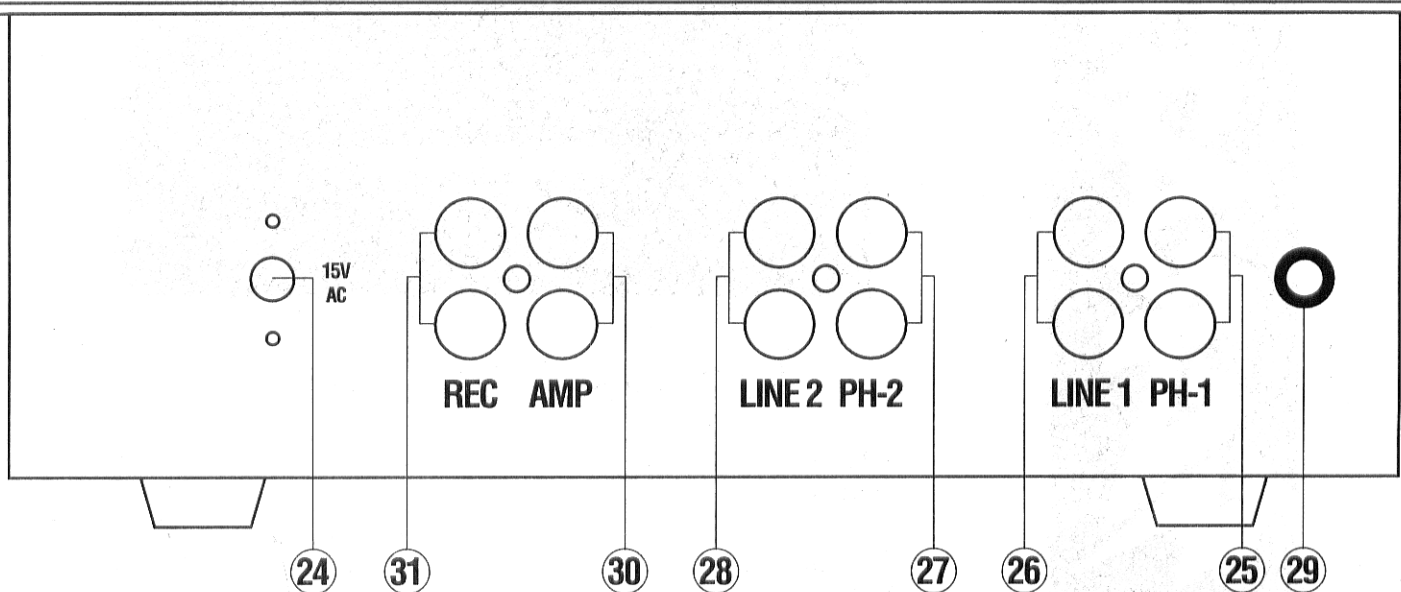
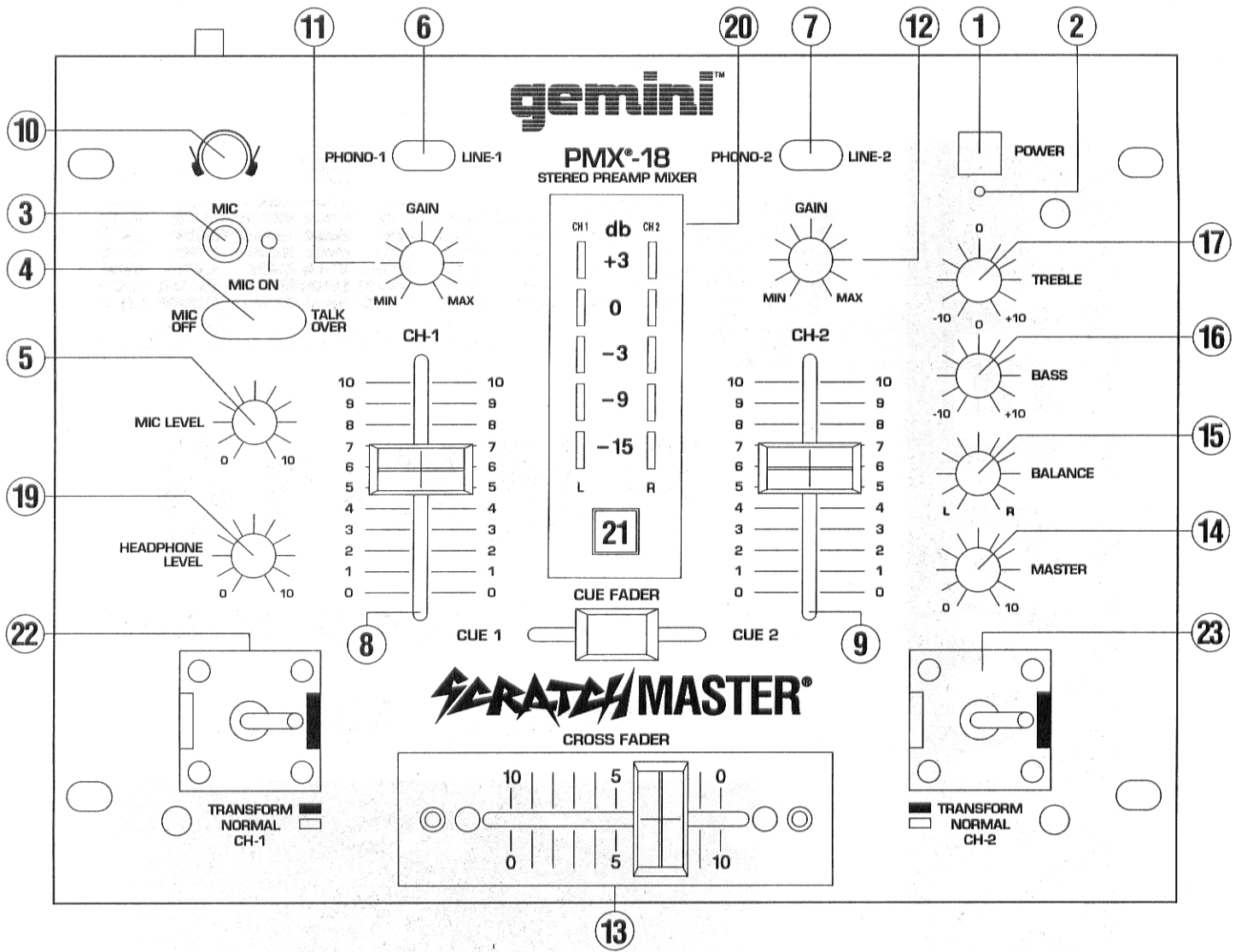
Stereo Preamp Mixer

Instruction Manual



Multi Language Instructions

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Introduction

Congratulations on purchasing a Gemini model PMX-18 mixer. This state of the art mixer includes the latest features and is backed by a three year warranty. Prior to use, we suggest that you carefully read all the instructions.

Features

- 2 Phono, 2 Line and 1 Mic
- Bass, Treble and Balance controls for the master output
- Individual channel gain controls
- Dual mode display (Left & Right output or Channel 1 and Channel 2)
- Removable transforming switches
- Cue Fader
- 3 year warranty
- Multi language instruction manual

Words to the wise

1. All operating instructions should be read before using this equipment.
2. To reduce the risk of electrical shock, do not open the unit. There are **NO USER REPLACEABLE PARTS INSIDE**. Please refer servicing to a qualified service technician.
3. Do not expose this unit to direct sunlight or to a heat source such as a radiator or stove.
4. This unit should be cleaned only with a damp cloth. Avoid solvents or other cleaning detergents.
5. When moving this equipment, it should be placed in its original carton and packaging. This will reduce the risk of damage during transit.

Cautions

DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE.

DO NOT USE ANY SPRAY CLEANER OR LUBRICANT ON ANY CONTROLS OR SWITCHES.

Connections

1. Make sure that the **POWER (1)** switch is in the off position. The **POWER LED (2)** will be off.
2. This unit comes supplied with a 15 volt AC adaptor. Plug the male pin of the adaptor into the rear panel **POWER JACK (24)**. Then plug the adaptor into a proper power source.
3. To connect the mixer to your amplifier, use the **OUTPUT AMP (30)** jacks on the rear panel.
4. If you desire to record your mix, connect the **OUTPUT REC (31)** jacks to the input of your reel to reel or cassette recorder. The record output level will vary as you raise and lower the **CHANNEL LEVEL (8,9)** slides and/or the **GAIN (11,12)** controls. Tonal changes can be made by varying the **BASS (16)** and **TREBLE (17)** controls.
5. The unit is equipped with one microphone input. The **MIC JACK (3)** is a 1/4" (6.35 mm) and is located on the front panel.
6. On the rear panel are 2 stereo **PHONO (25,27)** inputs and 2 stereo **LINE (26,28)** inputs. The **PHONO (25,27)** inputs will accept turntable inputs only. A **GROUND (29)** screw for you to ground your turntables is located on the rear panel. The stereo **LINE (26,28)** inputs will accept any line level input like a CD player or a cassette player.
7. Headphones can be plugged into the front panel mounted **HEADPHONE (10)** jack.

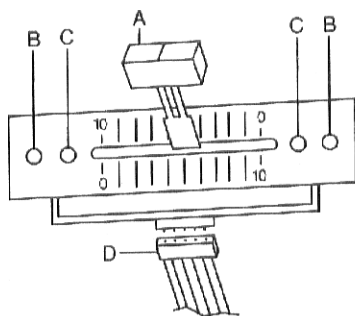
Operation

1. **POWER ON:** Once you have made all the equipment connections to your mixer, press the **POWER SWITCH (1)**. The power will turn on and the **POWER LED (2)** will glow RED.
2. **CHANNEL 1:** The **GAIN (11)** control and the **CHANNEL LEVEL SLIDE (8)** allow you to fully adjust the selected source. **PHONO/LINE (6)** switch allows you to select either line 1 or phono 1 to play on channel 1.

3. CHANNEL 2: The **GAIN (12)** control and the **CHANNEL LEVEL SLIDE (9)** allow you to fully adjust the selected source. **PHONO/LINE (7)** switch allows you to select either line 2 or phono 2 to play on channel 2.

4. CROSSFADER SECTION: The **CROSSFADER (13)** allows the mixing of one source into another. The left side of the **CROSSFADER (13)** is channel 1 and the right side is channel 2. The **CROSSFADER (13)** in your unit is **REMOVABLE** and if the need arises can be easily replaced. Crossfader units are available in two sizes. Part # RF-45 (which is identical to the crossfader supplied with the your unit) has a 45 mm travel from side to side. Also available is part # RF-30 which has a 30 mm travel distance. Just purchase either of these crossfader units from your Gemini dealer and follow these instructions.

1. Unscrew the outside **FADER PLATE SCREWS (B)**. Do not touch the **INSIDE SCREWS (C)**.
2. Carefully lift the fader and unplug the **CABLE (D)**.
3. Plug the new fader into the cable and place it back in the mixer.
4. Screw the fader to the mixer.



5. MICROPHONE SECTION: The **MIC SWITCH (4)** controls the microphone functions and the **MIC LEVEL CONTROL (5)** controls the microphone volume. The **MIC SWITCH (4)** is a three position switch. When it is in the left position, the microphone is off, in the center position, the microphone is on, and in the right position, the microphone is on and talkover is activated. Talkover, when activated, will reduce the overall volume of the mix without effecting the microphone volume. You will find this feature very useful when you need to make announcements over the music.

6. OUTPUT CONTROL SECTION: The level of the **AMP OUT (30)** is controlled by the **MASTER (14)** control. The **BALANCE (15)** control will allow the Amp Out signal to be balanced between the left and right speakers. The **BASS (16)** and **TREBLE (17)** controls allow you to fine tune your output signal.

7. CUE SECTION: By connecting a set of headphones to the **HEADPHONE (4)** jack, you can monitor any or all of the channels. By sliding the **CUE FADER (18)** control to the left you will be able to monitor the channel 1 output. Sliding to the right will monitor the channel 2 output. The headphone volume can be raised or lowered by using the **CUE LEVEL (19)** control.

8. DISPLAY: The dual function **DISPLAY (20)** indicates either the **MASTER (14)** output left and right levels or the channel 1 and channel 2 levels as dictated by the **GAIN (11,12)** controls. You can choose the option you want by pressing the **DISPLAY BUTTON (21)**.

9. TRANSFORMING SECTION:

A. Description: Most DJs use the Phono/Line switches on their mixer to do Transforming. By grasping the switch between two fingers, shaking back and forth would change the input from Phono to Line to Phono to Line, etc. This would result in a stuttering type effect. The problem with it is that the Phono/Line switches often break and repairing them is costly.

B. TRANSFORM SWITCHES: Your mixer is equipped with two removable Transforming Switches. These switches turn their channel from off to on to off, etc. This results in the same type stuttering effect. The **TRANSFORM SWITCHES (22,23)** have been positioned, by the factory, to move from side to side. By unscrewing the 4 screws from the **TRANSFORM SWITCH (22,23)** plate, you can turn the switch in 90 degree increments. This allows up/down, down/up, right/left or left/right positioning. **TRANSFORM SWITCH (22)** controls channel 1. **TRANSFORM SWITCH (23)** controls channel 2.

C. PROCEDURE: Set both **CHANNEL LEVEL SLIDE (8,9)** to your required levels. With the **CROSSFADER (13)** to the right (channel 2), moving **TRANSFORM SWITCH (23)** from white to orange will result in a stuttering effect. With the **CROSSFADER (13)** to the left, moving **TRANSFORM SWITCH (22)** will give the same results. You can vary the effect by flipping the switch faster or slower, longer or shorter.

D. ADDITIONAL EFFECTS: Set both **CHANNEL LEVEL SLIDE (8,9)** to your required levels. Place **TRANSFORM SWITCH (22)** in the orange position. Slide the **CROSSFADER (13)** from the right to a position approximately 1/3 of the way towards the left. (Channel 2 should still be playing through the speakers.). By moving **TRANSFORM SWITCH (22)** from orange to white to orange, you will turn channel 1 on and off (stuttering) while channel 2 continues to play to your audience.

E. REPLACEMENT: To replace a defective **TRANSFORM SWITCH (22,23)**, remove the 4 screws from the plate and carefully lift up and unplug the cable. Plug the new switch into the cable and place it back in the mixer, turning it until the direction is proper. Screw the plate down with the 4 screws and you are ready to transform.

Specifications

INPUTS:

DJ Mic1.5mV 2Kohm unbalanced

Phono.....3mV 47Kohm

Line.....150 mV 27Kohm

OUTPUTS:

Amp.....0 dB 1V 400ohm

Max.....20V Peak to Peak

Rec.....225mV 5Kohm

GENERAL:

Bass.....+/- 12dB

Treble.....+/- 12dB

Gain (Chnls 1-2).....0 to -20dB

Frequency Response20Hz - 20KHz +/- 2dB

Distortion.....0.02%

S/N Ratio.....better than 80dB

Talkover Attenuation.....-16dB

Headphone Impedance.....16ohm

Power Source.....115/230V 50/60Hz 15W

Dimensions.....10" x 7 1/2" x 3"

254mm x 192mm x 71mm